

A PARTIAL RECORD

OF

WORK OF GRADUATES

OF THE

Rensselaer Polytechnic Institute,

TROY, NEW YORK.

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NOTE—An asterisk (*) preceding a name indicates that the graduate is dead.

In some cases the position given is that which was formerly, but not at present, held by the graduate.

EXPLANATORY.

The occupations of the eight hundred and seventy-five living graduates of the Rensselaer Polytechnic Institute are almost as varied as are the more important avocations of men. Its eminent alumni may be found in nearly all professions and in every field of industry. It is, therefore, surprising that there should be a substantial unanimity among them all in attributing to their technical training much of their success in life. Those who have embraced mercantile pursuits are often as enthusiastic as the engineers in commending the education received at our institution. The same might be said of well-known natural scientists, manufacturers, architects and editors. It would be interesting, if practicable, to so classify the whole body of the alumni as to afford some evidence of the effect of technical education in qualifying young men for any business requiring alert, incisive and precise mental power. The purpose of this pamphlet is to deal only with the more simple problem of pointing out the success of graduates of the school in a few of those pursuits which naturally absorb the greater number.

The Annual Register contains the names and present residence and occupation of every living alumnus, compiled from the latest sources of information. It is indexed geographically, so that graduates in any community may readily be identified. Men of great reputation in every sphere of life will be recognized by those having but a limited acquaintance with the business and intellectual activities of the day. Registers will be sent to persons interested on request. A more exhaustive investigation of the work of graduates, including that of the most recent classes, is earnestly invited.

PREFACE.

The *Rensselaer Polytechnic Institute* was founded in 1824 at Troy, N.Y., by the Hon. Stephen Van Rensselaer.

This pamphlet is not intended to give a detailed description of its curriculum, which is fully elaborated in the Annual Register, but is designed to illustrate the value of its course of instruction as a *School of Engineering*. The best possible test of the efficiency of such a course is the success of its graduates in their professional work. It is desired to call particular attention to the success which a careful and thorough professional preparation of a high grade has enabled the graduates of recent years to attain.

On account of the difficulty of obtaining accurate data of the work of the alumni, the lists here given are necessarily incomplete; but an inspection of their contents shows that there have been numbered among the graduates of the Institute at least thirty-three (33) Presidents, one hundred and twenty-one (121) Vice-Presidents, Managers and Superintendents, and sixty-nine (69) Chief Engineers of Railroad Companies, Steel and Iron Works, Bridge Companies, Water Works, Electric Companies, Mining Companies, Sewerage Systems, Canals, etc. Detailed, though partial, lists will also be found of the railroad systems developed, in part or in whole, by them, and of bridge companies and great bridges with which they have been professionally connected. There are also included the names of graduates who have become professors of science and the mechanic arts in higher institutions of learning; but no mention is made of many who have attained eminence in various special but not easily classified departments of science and engineering.

One of the accompanying lithographic plates shows graphically the number in each graduating class who have held general professional positions of the character specified in the title, and who have been professors; the other indicates the number who have become members of the American Society of Civil Engineers.

Presidents of Corporations who have been Graduates of the Rensselaer Polytechnic Institute.

There are given below the names of some of the graduates of the Rensselaer Polytechnic Institute who have been Presidents of Railroad Companies, Steel and Iron Companies, Bridge Works, Locomotive Works, etc. :

CLASS.

- | | |
|------|--|
| 1835 | *WILLIAM H. CLEMENT,
President of the Cincinnati Southern Railway Company. |
| 1837 | *E. THOMPSON GALE,
President of the United National Bank of Troy. |
| 1837 | AARON B. OLMSTEAD,
President of the Saratoga Savings Bank. |
| 1837 | JAMES P. WALLACE,
President of the New York Guaranty and Indemnity Company. |
| 1846 | WILLIAM A. INGHAM,
President of the Rock Hill Iron and Coal Company. |
| 1849 | GEORGE B. ROBERTS,
President of the Pennsylvania Railroad Company. |
| 1850 | JOHN F. BARNARD,
President of the Ohio and Mississippi Railroad Company. |
| 1855 | FREDERICK GRINNELL,
President of the Providence Steam and Gas Pipe Company. |
| 1856 | WILLIAM W. WALKER,
President of the United States Central Railroad Company. |
| 1858 | ARIO PARDEE,
President of the Allentown Rolling Mill Company. |
| 1859 | ALEXANDER J. CASSATT,
President of the New York, Philadelphia and Norfolk Railroad Company. |
| 1859 | WALTER CRAFTS,
President of the Baird Iron Company. |
| 1860 | LUIZ DA R. DIAS,
President of the Pecanha Araxá Railroad Company, Brazil. |
| 1863 | AUGUSTUS E. W. PAINTER,
President of the J. Painter & Son Company, Iron Manufacturers. |
| 1863 | *FREDERICK W. VAUGHAN,
President of the Louisville Bridge and Iron Company. |
| 1864 | RALPH G. PACKARD,
President of the Atlantic Dredging Company. |
| 1864 | CHRISTOPHER C. WAITE,
President of the Cincinnati, Hocking Valley & Toledo Railroad Company. |
| 1866 | JOSEPH C. PLATT,
President of the Mohawk & Hudson Manufacturing Company. |
| 1871 | HENRY G. MORSE,
Formerly President of the Morse Bridge Company and now President of the Edge Moor Bridge Works. |

CLASS.

- 1871 THOMAS M. WILLIAMSON,
President of the Grand Tower and Carbondale Railroad Company.
- 1871 *EDWARD NICHOLS,
President of the Brooks Locomotive Works.
- 1871 CHARLES G. ROEBLING,
President of John A. Roeblings' Sons Wire Rope Manufacturing Company.
- 1872 JOHN F. ALDEN,
President of the Rochester Bridge and Iron Works.
- 1872 GRAHAM MACFARLANE,
President of the Macfarlane Coal Company.
- 1872 DAVID REEVES,
President of the Phœnix Iron Company and the Phœnix Bridge Company.
- 1873 CHARLES CAMPBELL,
President of the Iron Railroad Company.
- 1875 *WILLIAM L. FOX,
President of the Foxburg, Petersburg and Clarion Railroad Company.
- 1876 ISAAC W. FRANK,
President of the Frank Kneeland Machine Co., Pittsburgh, Pa.
- 1876 GEORGE O. KNAPP,
President of the Equitable Gas and Fuel Company, Chicago.
- 1876 CHARLES SOOYSMITH,
President of SooySmith & Company, Contracting Engineers.
- 1878 HARRY S. HODGE,
President of Samuel F. Hodge & Company, Machine Manufacturers, Detroit.
- 1879 JAMES M. JOHNSON,
President of the Louisville Bridge and Iron Company.
- 1886 JOHN KNICKERBACKER,
President of the Mohawk and Hudson Manufacturing Company.
(The Eddy Valve Company.)

Chief Engineers who have Graduated at the Rensselaer Polytechnic Institute.

Many of the graduates of the Rensselaer Polytechnic Institute have become Chief Engineers of Railroads, Bridges, Bridge Companies, Steel Works, Iron Works, Coal Companies, Water Works, Canals, etc. Some of the names of such graduates are given below :

CLASS.

- 1837 HENRY R. SNYDER,
Chief Engineer of the Atlantic and Ontario Railroad.
- 1838 *GEORGE W. R. BAYLEY,
Chief Engineer of the New Orleans, Mobile and Texas Railroad
- 1840 *CHARLES COLLINS,
Chief Engineer of the Lake Shore & Michigan Southern Railroad.

CLASS.

- 1849 GEORGE B. ROBERTS,
Chief Engineer of the Mahony and Broad Mountain Railroad and
of the Western Pennsylvania Railroad, etc.
- 1849 *BENJAMIN TURNER,
Chief Engineer of a Railroad in Nicaragua.
- 1850 JOHN F. BARNARD,
Chief Engineer of the Carillon and Grenville Railroad.
- 1850 CORNELIUS S. MASTEN,
Chief Engineer of the Rochester and State Line Railroad.
- 1851 *WILLIAM H. BURRALL,
Chief Engineer of the Cairo and Fulton Railroad.
- 1853 *CHARLES H. FISHER,
Chief Engineer of the New York Central and Hudson River Rail-
road.
- 1856 *LEICESTER BURNETT,
Chief Engineer of the Fremont, Elkhorn Valley and Missouri
River Railroad.
- 1856 CHARLES C. MARTIN,
Chief Engineer of the New York and Brooklyn Suspension Bridge.
- 1856 WILLIAM W. WALKER,
Chief Engineer of the Burlington, Cedar Rapids and Minnesota
Railroad.
- 1856 JOHN A. WILSON,
Chief Engineer of the Bennett's Branch Extension of the Alle-
gheny Valley Railroad.
- 1857 FREDERICK Y. DABNEY,
Chief Engineer of the Georgia Central Railroad.
- 1857 CHARLES MACDONALD,
Chief Engineer of the Reading and Columbia Railroad, etc.
- 1857 WASHINGTON A. ROEBLING,
Formerly Chief Engineer of the New York and Brooklyn Suspen-
sion Bridge.
- 1859 ALBERT S. GREENE,
Chief Engineer, United States Navy.
- 1859 THEODORE I. HEIZMANN,
Formerly Chief Engineer, Maintenance of Way, Pennsylvania
Railroad.
- 1859 ROBERT I. SLOAN,
Formerly Chief Engineer of the Metropolitan Elevated Railroad,
New York, now Chief Engineer of the South Side Rapid Trans-
it Railroad, Chicago.
- 1859 LORENZO J. DE VISCARONDO,
Chief Engineer of the Cordovo and Malaga Railroad, Spain.
- 1860 ALBERTO DE CASTRO,
Chief Engineer of the Havana Tramway Company, Cuba.
- 1860 LUIZ DA R. DIAZ,
Chief Engineer, Bahia and Caribaen Railroad, Brazil.
- 1860 *HENRIQUE HARRIS,
Chief Engineer of the New York and Manhattan Beach Railroad.
- 1860 WILLIAM H. SEARLES,
Chief Engineer of the Essex Iron Company.
- 1861 ALFRED P. BOLLER,
Chief Engineer of the West Side and Yonkers Railroad.

CLASS.

- 1861 BURDETT C. GOWING,
Chief Engineer, United States Navy.
- 1862 A. G. DE MENOCAL,
Chief Engineer of the Nicaragua Canal Construction Company.
- 1862 JOHN C. UNDERWOOD,
Chief Engineer and Superintendent of Bridges.
- 1863 *JAMES P. GOULD,
Chief Engineer of the Delhi and Middletown Railroad.
- 1863 EDWIN THACHER,
Formerly Chief Engineer of the Keystone Bridge Company ; Consulting Engineer.
- 1863 IGNACIO M. DE VARONA,
Chief Engineer of the Albany Special Water Commission.
- 1863 *FREDERICK W. VAUGHN,
Chief Engineer of the Henderson Bridge Company.
- 1864 ROBERT VAN BUREN,
Chief Engineer of the Department of Public Works of Brooklyn, N. Y.
- 1864 CHRISTOPHER C. WAITE,
Chief Engineer of the Cincinnati and Muskingum Valley Railroad.
- 1865 HENRY H. FARNUM,
Chief Engineer of the South Side Railroad of Long Island.
- 1867 CARLOS GUERRERO,
Chief Engineer, Ferro Carriles Unidos, Cuba.
- 1867 JOSE HERNANDEZ,
Chief Engineer of the Santo Domingo Railroad.
- 1867 ERNESTO L. LUACES,
Chief Engineer of the Santo Marta Railroad, Columbia.
- 1867 ALBERT H. MILLET,
Chief Engineer of the Southern Railroad of Equador, S. A.
- 1867 POMPEYO SARIOL,
Chief Engineer, Caibarien and Santa Espiritu Railroad, Cuba.
- 1867 WILLIAM B. STILLSON,
Chief Engineer in the Track Department, Michigan Central Railroad.
- 1868 THOMAS APPLETON,
Chief Engineer of the Topeka, Salina and Western Railroad.
- 1868 VIRGIL G. BOGUE,
Formerly Chief Engineer of the Union Pacific Railroad.
- 1868 ROSWELL E. BRIGGS,
Chief Engineer of the Denver and Rio Grande Railroad.
- 1868 OTHINIEL F. NICHOLS,
Chief Engineer of the Brooklyn Elevated Railroad.
- 1869 ROBERT B. C. BEMENT,
Chief Engineer of the Chicago, Dubuque and Minnesota Railroad.
- 1869 ROBERT FORSYTH,
Chief Engineer of the Illinois Steel Company.
- 1869 HENRY G. MCCLELLAN,
Chief Engineer of the Nevada and Oregon Railroad.
- 1869 WILLIAM A. THOMPSON,
Chief Engineer of the Sussex Railroad.
- 1870 THOMAS O'NEIL MORRIS,
Chief Engineer of the Indianapolis and St. Louis Railroad.

- 1871 MIGUEL DE T. ARGOLLO,
Chief Engineer of the Prolongamento da Estrada de Ferro da
Bahia, Brazil.
- 1871 FRED. L. GARLINGHOUSE,
Chief Engineer of the Pittsburgh Bridge Company.
- 1872 ALEXANDER J. SWIFT,
Chief Engineer of the Delaware and Hudson Canal Company.
- 1874 LYMAN E. COOLEY,
Formerly Chief Engineer of the Chicago Drainage Commission ;
Consulting Engineer.
- 1875 H. DEWITT SMITH,
Chief Engineer of the Paris, Marshall and Sabine Pass Railroad.
- 1876 EDWARD J. LANDOR,
Chief Engineer of the Wrought Iron Bridge Company.
- 1877 ALBYN P. DYKE,
Chief Engineer of the St. J. and E. Railroad.
- 1878 SEIJIRO HIRAI,
Chief Engineer of the Poronai Railroad.
- 1878 GEORGE S. DAVISON,
Chief Engineer of the Pittsburgh, Chartiers and Youghiogheny
Railroad.
- 1878 ALPHEUS T. SABIN,
Chief Engineer, N. N. & M. V. Co. (W. D.) and Ohio Valley Rail-
road.
1878. EDWARD C. SHANKLAND,
Chief Engineer, World's Columbian Exposition, Chicago.
- 1878 CHARLES R. SMITH,
Chief Engineer of the Yakima Irrigation Company.
- 1880 ALBERT NEWMAN CONNETT,
Chief Engineer of the Baltimore City Passenger Railway Com-
pany.
- 1880 FRANK C. OSBORN,
Chief Engineer of the King Bridge Company.
- 1882 FREDERICK ROSENBERG, JR.,
Chief Engineer of the Colorado Coal and Mining Company.
- 1885 HENRY W. HODGE,
Chief Engineer of the Union Iron Works, New York.
- 1885 LEVERETT S. MILLER,
Chief Engineer of the St. Paul and Duluth Railway.
- 1886 SUMNER LARUE TONE,
Chief Engineer of the West End Street Railway Company, Pitts-
burgh.
- 1887 PEDRO T. AGUILERA,
Chief Engineer Jaragua Mining Company, Cuba.
- 1887 RICHARD H. HOOD,
Chief Engineer of the Sea Board Air Line

**Vice-Presidents, General Managers and Superintendents
of Railroads, Bridge Companies, Steel and Iron
Works, Mining Companies, Coal Companies,
Water Works, Canals, etc., who have
been Graduated from the Rensselaer
Polytechnic Institute.**

CLASS.

- 1838 *GEORGE W. R. BAYLEY,
General Superintendent of the New Orleans, Mobile and Texas
Railroad.
- 1838 *WILLIAM G. LAPHAM,
Superintendent of the Western Division of the New York Central
and Hudson River Railroad.
- 1839 *STRICKLAND KNEASS,
Assistant to the President of the Pennsylvania Railroad Company.
- 1846 JAMES A. PENFIELD,
Superintendent of Iron Works, Boston, Mass.
- 1848 JAMES G. THOMPSON,
Eastern Manager of the Chicago Herald.
- 1849 GEORGE B. ROBERTS,
Vice-President of the Pennsylvania Railroad.
- 1850 JOHN F. BARNARD,
General Manager of the Ohio and Mississippi Railroad.
- 1850 CORNELIUS S. MASTEN,
Vice-President and Manager of the Maricopa and Phoenix Rail-
road.
- 1851 WILLIAM B. COGSWELL,
General Manager of the Solvay Process Co.
- 1855 FREDERICK GRINNELL,
Superintendent of Motive Power of the Atlantic and Great West-
ern Railroad Company.
- 1856 *LEICESTER BURNETT,
Superintendent of the Tremont, Elkhorn Valley and Missouri
River Railroad.
- 1856 CHARLES C. MARTIN,
Superintendent of the New York and Brooklyn Suspension
Bridge.
- 1856 WILLIAM W. WALKER,
Vice-President of the Cedar Rapids and Missouri River Railroad.
- 1856 EDMUND YARDLEY,
Superintendent of Transportation, Pittsburgh Division of the
Pennsylvania Railroad.
- 1857 FREDERIC Y. DABNEY,
Superintendent of the Vicksburg, Shreveport and Texas Railroad.
- 1858 JOSEPH M. KNAPP,
Joint Proprietor and Superintendent of the Fort Pitt Foundry.
- 1858 WILLIAM METCALF,
Joint Proprietor of the Crescent Steel Company.
- 1858 ARIO PARDEE,
Superintendent of Coal Mines, Hazletown, Pa.
- 1858 JOSEPH G. RICE,
Superintendent of Silver Mines, Bear Valley, Cal.

CLASS.

- 1859 ALEXANDER J. CASSATT,
Vice-President of the Pennsylvania Railroad Company.
- 1859 WALTER CRAFTS,
Vice-President and General Manager of the Woodstock Iron Company.
- 1859 HARRISON A. ROYCE,
General Manager Thompson Electric Welding Company.
- 1859 *RUSSELL SAGE,
Superintendent of the Milwaukee and St. Paul Railroad.
- 1859 ARTHUR B. DE SAULLES,
Superintendent of Coal Mines, Pottsville, Pa.
- 1859 ROBERT I. SLOAN,
Superintendent of the St. Joseph and Marysville Railroad.
- 1861 *EBENEZER P. BUCKINGHAM,
Superintendent of Oil Wells, Mt. Vernon, O.
- 1861 ROBERT NEILSON,
General Superintendent P. and E. Division of the Pennsylvania Railroad.
- 1861 WILLIAM N. SYMINGTON,
Superintendent of the American Barytes Company.
- 1863 AUGUSTUS E. W. PAINTER,
General Manager of Iron Works, Pittsburgh. Pa.
- 1863 IGNACIO M. DE VARONA,
Superintendent of the Albany Water Works.
- 1864 CHRISTOPHER C. WAITE,
Vice-President of the Cincinnati, Hamilton, and Dayton Railroad.
- 1866 THEODORE N. ELY,
General Superintendent of Motive Power of the Pennsylvania Railroad.
- 1866 HERBERT C. FELTON,
Superintendent of the Kaighns' Point and Philadelphia Ferry Company.
- 1866 WILLIAM P. HARRIS,
Superintendent of the C. C. and C. Railroad.
- 1866 *BENJAMIN N. LILIENTHAL,
Superintendent of the Golden Chariot Company, Silver City, Idaho.
- 1866 ALBON P. MANN,
General Manager Silver Springs, Ocala and Gulf Railroad.
- 1866 WILLIAM H. WILEY,
Superintendent of the Tunnel Hill Coal Company.
- 1867 CARLOS GURRERO
General Manager of the Zaza Railroad, Cuba.
- 1867 FRANK J. HEARNE,
General Manager of the Riverside Iron Works.
- 1867 JOHN SALTAR,
Manager of the Otto Gas Engine Works, Chicago.
- 1868 THOMAS APPLETON,
Superintendent of Bridges and Buildings of the Galveston, Harrisburgh and San Antonio Railroad.
- 1868 JOSEPH H. CAMPBELL,
Superintendent of Iron Works, Ironton, O.
- 1868 O. F. NICHOLS,
General Manager of the Brooklyn Elevated Railroad.

CLASS.

- 1868 *HARWOOD V. OLYPHANT,
Assistant President of the Delaware and Hudson Canal Com-
pany.
- 1868 IRVING A. STEARNS,
Manager of Coal Companies, Wilkesbarre, Pa.
- 1869 TRUMAN H. ALDRICH,
Vice-President Gahaba Coal Mining Company.
- 1869 HENRY BURDEN,
Western General Manager of the Colorado Coal and Iron Com-
pany.
- 1869 ROBERT FORSYTH,
General Superintendent of the Union Steel Company.
- 1869 ARTHUR B. STARR,
Superintendent of the Eastern Division of the Pennsylvania Rail
Road Company.
- 1869 LOWELL H. STONE,
Superintendent of the Iowa Southwestern Railroad.
- 1869 ROBERT C. PEEBLES,
Superintendent of the Mexican National Railroad.
- 1869 THEODORE VOORHEES,
General Superintendent of the New York Central and Hudson
River Railroad.
- 1870 ROBERT C. NIEL,
Manager of the Lochiel Iron Works, Harrisburg, Pa.
- 1870 NATHANIEL E. RUSSELL,
General Manager of the W. A. Wood Mowing Machine Company.
- 1871 *WILLIAM L. BAKER,
Superintendent of the Detroit Bridge and Iron Works.
- 1871 ALFRED S. BERTOLET,
General Manager of the West Duluth Furnace Company.
- 1871 CHARLES L. GRIMES,
Superintendent of the Moline Iron Works.
- 1871 ALFRED P. KIRTLAND,
Superintendent of West Penn. Division of the Pennsylvania Rail-
road.
- 1871 M. WILLIAM MANSFIELD,
Superintendent of the I. and V. Division of the Pennsylvania
Company.
- 1871 EDWARD NICHOLS,
Superintendent of the Ridge Valley Iron Works.
- 1871 THOMAS M. WILLIAMSON,
Superintendent of the Spiral Weld Tube Company.
- 1872 WILLIAM H. BURR,
General Manager of the Phoenix Bridge Company.
- 1872 WILLIAM B. SHERMAN,
Superintendent of Coal Mines, Pottsville, Pa.
- 1872 ALFRED WALTER,
General Manager of the New York, Lake Erie and Western Rail-
road.
- 1873 *JAMES E. BELL,
General Superintendent of the Construction of Locks, Cincinnati,
Ohio.
- 1873 CHARLES CAMPBELL,
Superintendent of Iron Works, Ironton, Ohio.

CLASS.

- 1873 CHARLES P. HARRIS,
General Manager of the Harris Manufacturing Company. Rutland, Vt.
- 1873 JAMES REED,
Superintendent of Western Pennsylvania Division of Pennsylvania Railroad.
- 1873 WILLIAM H. REEVES,
Superintendent of the Phoenix Iron Company.
- 1873 PEDRO J. SOSA,
Chief of the Technical Control of the Panama Canal.
- 1873 THEODORE STEINACKER,
Superintendent of the Wyatt Park Electric Railway, St. Joseph, Missouri.
- 1873 DANIEL A. TOMPKINS,
Vice-President, Charlotte Oil and Fertilizer Company.
- 1874 FRANK L. FORD,
General Manager of the Chronicle Mining and Milling Company.
- 1874 ALEXANDER P. GEST,
Superintendent of the Frederick Division of the Pennsylvania Railroad.
- 1875 WALTER E. DALCHY,
General Superintendent of the P. T. & A. Railroad.
- 1875 JACOB T. WAINWRIGHT,
Vice-President of the Drake & Stratton Company, Pittsburgh, Pa.
- 1876 JOSIAH R. T. DAVIS,
General Manager of the Telephone Company, Harrisburg, Pa.
- 1876 WILLIAM W. HUNTINGTON,
Superintendent of the Eagle Bird Mines, Red Cliff, Col.
- 1877 HOWARD N. ELMER,
Manager of the Western Office of the New Jersey Steel and Iron Company.
- 1877 HENRY R. GRIFFEN,
General Manager of the Griffen Enamel Brick Company.
- 1877 HORACE G. YOUNG,
Second Vice-President of the Delaware and Hudson Canal Company.
- 1878 W. IRVING BABCOCK,
Manager of the Chicago Ship Building Company.
- 1878 CLARENCE M. BAREER,
Superintendent of the National Carbon Company.
- 1878 HARRY S. HODGE,
Superintendent of the Lake Superior Iron Works.
- 1878 DANIEL McLAREN,
General Superintendent of the Mobile and Ohio Railroad.
- 1878 A. T. SABIN,
Superintendent of the Road Department of the C., O. and S. Railroad Company.
- 1879 ROBERT R. BRIDGERS,
Superintendent N. C. Division of the Richmond and Danville Railroad.
- 1879 HENRY N. BRINSMADE,
Superintendent of the Lake Superior Iron Works.
- 1879 ELIPHALET W. CRAMER,
Manager of the Bucyrus Steam Shovel and Dredge Company.

CLASS.

- 1879 FRANK E. PLATT,
Superintendent of Blast Furnace, Scranton, Pa.
- 1879 HENRY W. POTTER,
Superintendent of Silver Mines, City of Mexico.
- 1879 CHARLES T. RAYMOND,
Superintendent of the Lockport Pulp Company.
- 1879 WILLIAM B. RIDGELY,
Vice-President of the Springfield Iron Company.
- 1879 WILLIAM G. SHARP,
Superintendent of the Pleasant Valley Coal Company.
- 1880 FRANK LESLIE CLARK,
William Clark's Sons & Company, Iron Works.
- 1880 W. B. HAMMOND,
Manager of the Sales Department of the Ticonderoga Machine Company.
- 1880 L. G. DE S. LEME,
General Manager of the Brigantina Railroad, Brazil.
- 1880 C. R. MANVILLE,
Superintendent of the Penn. Division of the Delaware and Hudson Canal Company.
- 1880 JOSEPH ALLEN POWERS,
Manager of the Glens Falls Electric Railway.
- 1881 F. DE A. CINTRA,
Superintendent of the Tarbati Gas and Mineral Oil Company.
- 1881 ELMORE B. MCNEILL,
General Superintendent of the St. Joseph and Grand Island Railroad.
- 1882 GEORGE R. BAUCUS,
General Manager of the Pelican Mining Company.
- 1882 JAMES H. COVODE,
General Manager K. C., F. S. and S. R. R.
- 1882 INDEPENDENCE GROVE,
Superintendent of the Colorado Coal and Iron Company.
- 1882 FREDERICK ROSENBERG,
General Manager of the Colorado Coal and Mining Company.
- 1883 ROBERT J. PRATT,
Manager of the Electric Manufacturing Company.
- 1884 GEORGE R. ELDER,
Superintendent of the Switch Works of the Johnson Company.
- 1885 F. BOIERO,
General Manager of the Antioquia Railroad.
- 1885 ELIAS CHESROWN,
Superintendent of the Bangor Street Electric Railway.
- 1885 WILLIAM H. HASSINGER,
Vice-President and Manager of the Alabama Rolling Mill Company.
- 1885 HENRY A. LACHICOTTE,
Eastern Manager of the Wrought Iron Bridge Company.
- 1886 TRACY C. DRAKE,
Manager of the Grand Pacific Hotel, Chicago, Ill.
- 1886 ALBERT L. HAUCK,
Superintendent of the East End Works of the Cincinnati Gas Light and Coke Company.

CLASS.

- 1887 RICHARD S. BUCK,
Superintendent of the Carney Phosphate Company.
- 1887 P. H. HENRY,
Superintendent, Barber Asphalt Paving Company, New York.
- 1887 STEWART JOHNSON,
Superintendent of the Pittsburgh Steel Casting Company.
- 1888 JAMES M. AFRICA,
General Manager of the Etowah Iron Company.
- 1888 FRANK J. EPPELE,
Vice-President and General Manager of the Trenton Malleable
Iron Company.
- 1888 JAMES W. HOWARD,
Superintendent, Barber Asphalt Paving Company, New York.
- 1888 PEMBERTON SMITH,
Superintendent of the Hudson River Bridge Company.
- 1890 CARL F. ADAM,
Superintendent, Barber Asphalt Paving Company, New York.

What the Rensselaer Polytechnic Institute Has Done for Education.

The following list contains the names of some of the graduates of the Rensselaer Polytechnic Institute who have been connected as Professors and Assistant Professors with the higher institutions of learning in this and other countries. Besides these many others have served in Colleges and Technical Schools as teachers in various capacities.

CLASS.

- 1826 *HEZEKIAH H. EATON,
Assistant Professor of Chemistry in Transylvania University.
- 1826 *TIMOTHY DWIGHT EATON,
Assistant Professor of Natural History in Rensselaer Polytechnic
Institute.
- 1826 *EBENEZER EMMONS,
Professor of Geology and Mineralogy in Williams College.
- 1828 *FAY EDGERTON,
Professor of Chemistry and Natural History in the Utica High
School.
- 1829 *JOHN M. BARROWS,
Professor of Chemistry and Botany in Olivet College.
- 1830 *JOSEPH THOMAS,
Professor of English Literature in Swarthmore College.
- 1831 *ABRAM SAGER,
Professor of Obstetrics in the University of Michigan.
- 1832 JAMES HALL,
Emeritus Professor of Geology in Rensselaer Polytechnic Insti-
tute.
- 1832 *S. WELLS WILLIAMS,
Professor of Chinese and Oriental Literature in Yale College.

CLASS.

- 1838 EZRA S. CARR,
Formerly Professor of Agricultural Chemistry in the University of California
- 1839 *GEORGE H. COOK,
Director Rensselaer Polytechnic Institute, Professor of Chemistry in Rutgers College.
- 1841 *HENRY POMEROY,
Professor of Mathematics and Civil Engineering in Lawrence University, and Professor of Mathematics in Washington University.
- 1842 B. FRANKLIN GREENE,
Formerly Director Rensselaer Polytechnic Institute and Professor of Mathematics United States Navy.
- 1842 FITZ EDWARD HALL,
Professor of Sanskrit and Indian Jurisprudence in King's College, London, England.
- 1842 *AARON L. LINDSLEY,
Professor in Pacific Theological Seminary, Oakland, Cal.
- 1846 JAMES H. SALISBURY,
Formerly Professor of Physiology and Anatomy in Cleveland Charity Hospital Medical School.
- 1847 *CHARLES DROWNE,
Professor of Mechanics and Director of Rensselaer Polytechnic Institute.
- 1847 GEORGE W. PLYMPTON,
Professor of Physics in Brooklyn Polytechnic Institute.
- 1848 RICHARD EDWARDS,
President of Blackburn University.
- 1851 DAVID M. GREENE,
Formerly Professor of Geodesy, and Director of Rensselaer Polytechnic Institute.
- 1851 S. EDWARD WARREN,
Formerly Professor of Descriptive Geometry and Stereotomy in Rensselaer Polytechnic Institute, and in Massachusetts Institute of Technology.
- 1853 DASCOM GREENE,
Professor of Mathematics and Astronomy in Rensselaer Polytechnic Institute.
- 1857 DEVOLSON WOOD,
Formerly Professor of Civil Engineering in the University of Michigan and now Professor of Mathematics and Mechanics in Stevens Institute of Technology.
- 1860 CHARLES McMILLAN,
Formerly Professor of Geodesy in Rensselaer Polytechnic Institute and Civil Engineering in Lehigh University and now Professor of Civil Engineering in Princeton College.
- 1860 JOHN PEMBERTON,
Formerly Professor of Natural and Experimental Philosophy in the United States Naval Academy.
- 1860 JOHN D. VAN BUREN,
Formerly Assistant Professor of Natural and Experimental Philosophy in the United States Naval Academy.

CLASS.

- 1861 WILLIAM FENTON,
Assistant Professor of Mathematics and Geodesy in Rensselaer Polytechnic Institute.
- 1861 *JOSEPH G. FOX,
Professor of Civil Engineering in Lafayette College.
- 1861 ESTAVAN A. FUERTES,
Professor of and Dean of the Faculty of Civil Engineering in Cornell University.
- 1862 WILLIAM L. ADAMS,
Formerly Professor of Geodesy and Director of Rensselaer Polytechnic Institute.
- 1862 RICHARD H. BUEL,
Formerly Assistant Professor of Natural and Experimental Philosophy in the United States Naval Academy.
- 1866 CHARLES W. RAE,
Former Instructor in Engineering in the United States Naval Academy.
- 1867 ARTHUR BEARDSLEY,
Professor of Engineering and Director of Mechanic Arts in Swarthmore College.
- 1868 GASPAR F. DE CEBALLOS,
Professor of Mathematics, English Language and Drawing, Institute Veracruzano, Botica la Merced, Vera Cruz, Mexico.
- 1870 JOHN H. RANDOLPH,
Instructor in Practical Mechanics in Louisiana State University.
- 1870 HENRY A. ROWLAND,
Professor of Physics in Johns Hopkins University.
- 1870 JUSTUS M. SILLIMAN,
Markle Professor of Mining Engineering and Graphics in Lafayette College.
- 1871 ARTHUR W. BOWER,
Formerly Professor of Physics in the Rensselaer Polytechnic Institute.
- 1871 SPENCER V. RICE,
Formerly Instructor in Graphics and Field Work in Lehigh University.
- 1872 WILLIAM H. BURR,
Formerly Professor of Mechanics in the Rensselaer Polytechnic Institute, and now Professor of Engineering in Harvard University.
- 1873 ARTHUR L. BAKER,
Professor of Mathematics in Rochester University.
- 1873 ARTHUR J. FRITH,
Formerly Instructor in Civil and Mechanical Engineering in Lehigh University.
- 1874 LYMAN E. COOLEY,
Formerly Professor of Civil Engineering in the Northwestern University.
- 1874 WILLIAM P. MASON,
Professor of Analytical Chemistry in the Rensselaer Polytechnic Institute.
- 1875 PALMER C. RICKETTS,
Professor of Mechanics in and Director of Rensselaer Polytechnic Institute.

CLASS.

- 1875 JOHN A. L. WADDELL,
Formerly Professor of Engineering in the University of Tokio,
Japan.
- 1877 DANIEL W. CHURCH,
Formerly Professor of Civil Engineering in Iowa Agricultural
College.
- 1877 SEYMOUR W. TULLOCK,
Formerly Assistant Professor of Civil Engineering in the Univer-
sity of Wisconsin.
- 1878 KNAME HARAGUCHI,
Professor in University of Tokio, Japan.
- 1879 FRED. N. WILSON,
Professor of Descriptive Geometry, Stereotomy and Drawing in
Princeton College.
- 1883 *J. FRANCIS WILLIAMS,
Assistant Professor of Geology in Cornell University.
- 1884 CHARLES W. CROCKETT,
Assistant Professor of Mathematics in Rensselaer Polytechnic
Institute.
- 1885 JAMES HETZEL,
Assistant Professor of Civil Engineering Western University of
Pennsylvania.
- 1885 EDGAR MARBURG,
Acting Professor of Civil Engineering in the University of
Pennsylvania.
- 1886 HENRY B. DAVENPORT,
Professor of Civil and Mining Engineering in the University of
West Virginia.
- 1887 RICHARD H. HOOD,
Professor of Engineering and Dean of the Engineering Depart-
ment in the University of Missouri.

The list given above shows that graduates of the Rensselaer Polytechnic Institute have been Professors of various subjects in the following Schools :

Brooklyn Polytechnic Institute, Blackburn University, Cornell University, Institute Veracruzana (Mexico), Iowa Agricultural College, Johns Hopkins University, Kings College (England), Lafayette College, Lawrence University, Lehigh University, Louisiana State University, Harvard University, Massachusetts Institute of Technology, Northwestern University, Olivet College, Princeton College, Rensselaer Polytechnic Institute, Rochester University, Rutgers College, Stevens Institute of Technology, Swarthmore College, Transylvania University, United States Navy, United States Naval Academy, University of California, University of Michigan, University of Missouri, University of Pennsylvania, University of Wisconsin, University of West Virginia, University of Tokio (Japan), Washington University, Western University of Pennsylvania, Williams College, Yale University.

Some Graduates of the Rensselaer Polytechnic Institute who have been State Geologists.

CLASS.

- 1826 *EBENEZER EMMONS,
Late State Geologist of North Carolina.
- 1829 *DOUGLAS HOUGHTON,
Late State Geologist of Michigan.
- 1832 JAMES HALL,
State Geologist of New York.
- 1835 *MICHAEL TUOMEY,
Late State Geologist of South Carolina and Alabama.
- 1839 *GEORGE H. COOK,
Late State Geologist of New Jersey.
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Work of Graduates of the Rensselaer Polytechnic Institute in Developing the Railroad Systems of the World.

Space cannot be given for the names of those graduates who as Presidents, Vice-Presidents, Engineers, Managers and Superintendents have in both hemispheres largely helped to develop the material resources of the world. Nor can a complete record of such work be obtained. An idea of its magnitude may be gathered from the statement that a partial record shows them to have held such positions on more than one hundred and nine thousand (109,000) miles of the railroad systems of North America. In South America, Europe and Japan also many miles of railroads have been built by them. Nine Presidents and more than fifty Chief Engineers are numbered among its alumni. A partial list of the systems in North America which they have helped to build and operate is here given :

Adirondack and St. Lawrence Railway.
Alabama Midland Railroad.
Allegheny Valley Railroad.
Atlantic and Ontario Railroad.
Atlantic and Great Western Railroad.
Baltimore and Ohio Railroad.
Big Four Route.
Boston and Maine Railroad.
Burlington, Cedar Rapids and Minnesota Railroad.
Burlington and Missouri River Railroad.
Carillon and Grenville Railroad.
Cairo and Fulton Railroad.

California Pacific Railroad.
 Canada Southern Railroad.
 Cedar Rapids and Missouri River Railroad.
 Central Pacific Railroad.
 Central Railroad of Georgia.
 Central Railroad of New Jersey.
 Charleston, Cincinnati and Chicago Railroad.
 Chesapeake and Ohio Railway.
 Chesapeake, Ohio and Southwestern Railroad.
 Chicago and Alton Railroad.
 Chicago and Northwestern Railroad.
 Chicago and Western Indiana Railroad.
 Chicago, Burlington and Quincy Railroad.
 Chicago, Dubuque and Minnesota Railroad.
 Chicago, Milwaukee and St. Paul Railroad.
 Cincinnati, Hamilton and Dayton Railroad.
 Cincinnati, Indianapolis, St. Louis and Chicago Railroad.
 Cincinnati, New Orleans and Texas Pacific Railroad.
 Cincinnati Southern Railroad.
 Cleveland, Cincinnati, Chicago and St. Louis Railroad.
 Cleveland, Painesville and Ashtabula Railroad.
 Colorado Midland Railroad.
 Columbus, Hocking Valley and Toledo Railroad.
 Cressen, Clearfield County and New York Short Route Railroad
 Davenport and St. Paul Railroad.
 Deadwood Central Railroad.
 Denver and Rio Grande Railroad.
 Duluth and Iron Range Railroad.
 Erie Railroad.
 Fitchburg Railroad.
 Flint and Pere Marquette Railroad.
 Forburg, St. Petersburg and Clarion Railroad.
 Fremont, Elkhorn and Missouri Valley Railroad.
 Galveston, Harrisburg and San Antonio Railroad.
 Grand Trunk Railroad.
 Great Northern Railway Line.
 Hannibal and St. Joseph Railroad.
 Indianapolis and St. Louis Railroad.
 Intercolonial Railway.
 James River Valley Railroad.
 Kansas City, Fort Smith and Southern Railroad.
 Kansas City, St. Joseph and Council Bluffs Railroad.
 Lake Erie and Western Railroad.
 Lake Shore and Michigan Southern Railway.
 Leavenworth, Topeka and Southwestern Railroad.
 Lehigh Valley Railroad.

Little Miami Railroad.
 Louisville and Nashville Railroad.
 Louisville Southern Railroad.
 Mahony and Broad Mountain Railroad.
 Maine Central Railroad.
 Maricopa and Phoenix Railroad.
 Mexican Central Railroad.
 Michigan Central Railroad.
 Milwaukee and St. Paul Railroad.
 Minneapolis and Cedar Valley Railroad.
 Minnesota and Northwestern Railroad.
 Mobile and Ohio Railroad.
 Montclair Railroad.
 Morris and Essex Railroad.
 Nevada and Oregon Railroad.
 New Jersey Midland Railroad.
 New Orleans, Mobile and Texas Railroad.
 New Orleans, Opelousas and Great Western Railroad.
 New Orleans Pacific Railroad.
 Newport News and Mississippi Valley Railroad.
 New York and Erie Railroad.
 New York and New England Railroad.
 New York and Oswego Midland Railroad.
 New York Central and Hudson River Railroad.
 New York, Lake Erie and Western Railroad.
 New York, New Haven and Hartford Railroad.
 New York, Ontario and Western Railroad.
 New York, Pennsylvania and Ohio Railroad.
 New York, Philadelphia and Norfolk Railroad.
 New York, West Shore and Buffalo Railroad.
 Norfolk and Western Railroad.
 Northern and Western Railroad.
 Northern Central Railway.
 Northern Pacific Railroad.
 Ohio and Mississippi Railway.
 Paducah, Tennessee and Alabama Railroad.
 Paris, Marshall and Sabine Pass Railway.
 Pennsylvania Railroad Company.
 Peoria and Eastern Railroad.
 Perkiomen Railroad.
 Philadelphia and Erie Railroad.
 Philadelphia and Reading Railroad.
 Pittsburgh and Western Railroad.
 Pittsburgh, Chartiers and Youghioghenny Railway.
 Pittsburgh, Cincinnati, Chicago and St. Louis Railroad.
 Pittsburgh, McKeesport and Youghioghenny Railroad.

Poughkeepsie, Hartford and Boston Railroad.
 Prospect Park and Coney Island Railroad.
 Reading and Columbia Railroad.
 Republican Valley Railroad.
 Richmond and Danville Railroad.
 Rochester and State Line Railroad.
 Rome, Watertown and Ogdensburgh Railroad.
 Rondout and Oswego Railroad.
 St. Joseph and Grand Island Railroad.
 St. Louis and Hannibal Railway.
 St. Louis and San Francisco Railway.
 St. Paul and Duluth Railroad.
 Savannah, Americus and Montgomery Railway.
 Savannah, Florida and Western Railway.
 Seaboard Air Line Passenger Route.
 Silver Spring, Ocala and Gulf Railroad.
 Sioux City and Pacific Railroad.
 Sioux City and Pembina Railroad.
 Southern Pacific Company.
 Southern Pennsylvania Railroad.
 South Side Railroad of Long Island.
 Sussex Railroad.
 Syracuse, Binghamton and New York Railroad.
 Texas and Pacific Railway.
 Texas, Santa Fe and Northern Railroad.
 Toledo and Ohio Central Railway.
 Toledo, Columbus and Cincinnati Railway.
 Troy and Boston Railroad.
 Ulster and Delaware Railroad.
 Union Pacific Railway.
 Vicksburg, Shreveport and Texas Railroad.
 Wabash, St. Louis and Pacific Railroad.
 Wallkill Valley Railroad.
 Western Pacific Railroad.
 West Shore Railroad.

**Bridges and Bridge Companies with which Graduates of
 the Rensselaer Polytechnic Institute have been
 connected as Designers and Constructors.**

The bridges designed and constructed in whole or in part by graduates of the Institute are so numerous that no estimate of their number or length can be made. It is safe to say that there is no State in the Union, and very few

railroads of any magnitude, which do not contain structures built by them. They have held responsible positions as Presidents and Engineers in most of the large bridge companies in the country, among others in the :

Canton Bridge Company,
 Delaware Bridge Company
 Detroit Bridge Works.
 Edge Moor Bridge Works.
 Elmira Bridge Company.
 Keystone Bridge Company.
 King Bridge Company.
 Louisville Bridge Company.
 Massillon Bridge Company.
 Milwaukee Bridge Company.
 Morse Bridge Works.
 Niagara Bridge Company.
 Pennsylvania Steel Company
 Pencoyd Bridge Works.
 Phœnix Bridge Company.
 Philadelphia Bridge Works.
 Pittsburgh Bridge Company.
 Rochester Bridge Works
 Union Bridge Company.

They have been represented in the design or construction of most of the great bridges of the country and of some in foreign countries ; among others in the

Albany and Greenbush, Hudson River, Albany, N. Y.; B. & O. R. R., Schuylkill River, Philadelphia, Pa.; B. & O. R. R., Arthurkill, near Elizabeth, N. J.; Beaver Falls, Ohio River, Beaver Falls, Pa.; Big Warrior, Big Warrior River, Alabama ; Cairo, Ohio River, Cairo, Ill.; Central, Harlem River, New York ; Ceredo, Ohio River, Ceredo, W. Va.; Cincinnati and Covington, Ohio River, Cincinnati, O.; Cincinnati and Newport, Ohio River, Cincinnati, O.; D. & H. C. Co., Hudson River, Troy, N. Y.; East River Suspension, East River, New York ; Elevated Railroads of New York, Brooklyn, Philadelphia, Chicago, St. Louis, etc.; Fort Madison, Missouri River, Fort Madison, Mo.; Girard Avenue, Schuylkill River, Philadelphia, Pa.; Havre de Grace, Susquehanna River, Havre de Grace, Md.; Hawkesbury, Hawkesbury River, Australia; Henderson, Ohio River, Henderson, Ky.; Kentucky and Indiana, Ohio River, Louisville, Ky.; Kinzua Viaduct, Kinzua Valley, Pa.; Market Street, Schuylkill River, Philadelphia, Pa.; Merchants, Mississippi River, St. Louis Mo.; Madison Avenue, Harlem River, New York ; M. & B. R. R., Tombigbee River, Tombigbee, Ala.; City, Mississippi River, St.

Paul, Minn.; N. Y. C. & N. R. R., Harlem River, New York; N. Y. C. and H. R. R. R., Albany, N. Y.; Niagara Highway Suspension, renewal of, Niagara River, Niagara Falls, N. Y.; Niagara Railway Suspension, renewal of, Niagara River, Suspension Bridge, N. Y.; Niagara Cantilever, Niagara River, Suspension Bridge, N. Y.; P. R. R., Perth Amboy, N. J.; P. R. R., Susquehanna River, Harrisburg; Pa.; Poughkeepsie, Hudson River, Poughkeepsie, N. Y.; Pecos River Viaduct, Pecos Gorge, Texas; Red Rock, Colorado River, Needles, Cal.; Rondout, Rondout Creek, Kingston, N. Y.; Sibley, Missouri River, Sibley, Mo.; Stillwater, Hudson River, Stillwater, N. Y.; Sixth Street, Allegheny River, Pittsburgh, Pa.; Thames River, Thames River, New London, Conn.; Verrugas Viaduct, Peru, S. A.; Van Buren, Red River, Van Buren, Ark.; Washington, Harlem River, New York; Wheeling, Ohio River, Wheeling, West Va.

Bridge Engineers who have Graduated from the Rensselaer Polytechnic Institute.

CLASS.

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| 1846 | PERCIVAL ROBERTS,
Joint Proprietor of the Pencoyd Bridge Works. |
| 1847 | *JOHN W. MURPHY,
Constructor of Murphy Whipple Bridges. |
| 1855 | FRANCIS COLLINGWOOD,
Formerly Assistant Engineer on the New York and Brooklyn
Suspension Bridge. |
| 1856 | CHARLES C. MARTIN,
Chief Engineer of the New York and Brooklyn Susp. Bridge. |
| 1856 | *GILMAN TRAFTON,
Member of the Louisville Bridge Company. |
| 1857 | ROBERTO ESCOBAR,
Assistant Engineer Union Bridge Company. |
| 1857 | GABRIEL LEVERICH,
Principal Assistant Engineer of the New York and Brooklyn Sus-
pension Bridge. |
| 1857 | CHARLES MACDONALD,
Of the Union Bridge Company. |
| 1857 | WASHINGTON A. ROEBLING,
Formerly Chief Engineer of the New York and Brooklyn Sus-
pension Bridge. |
| 1858 | THEODORE COOPER,
Consulting Engineer. |
| 1858 | JOSEPH M. WILSON,
Formerly Engineer of Bridges and Buildings of the Pennsylvania
Railroad Company. |
| 1861 | ALFRED P. BOLLER,
Consulting Engineer. |
| 1863 | EDWIN THACHER,
Formerly Chief Engineer of the Keystone Bridge Company;
Consulting Engineer. |

CLASS.

- 1863 *FREDERICH W. VAUGHAN,
Late President Louisville Bridge and Iron Company.
- 1867 ABRAHAM E. COX.
Formerly Resident Engineer of Lehigh Bridge and Iron Works.
- 1867 SAMUEL J. FIELDS,
Formerly Engineer Niagara Bridge Works.
- 1867 FRANCIS H. SAYLOR,
Of the Philadelphia Bridge Works.
- 1868 LEFFERT L. BUCK,
Consulting Engineer.
- 1868 O. F. NICHOLS,
Chief Engineer Brooklyn Elevated Railroad Company.
- 1871 *WILLIAM L. BAKER,
Late Superintendent and Engineer of the Detroit Bridge and Iron Works.
- 1871 FRED. L. GARLINGHOUSE,
Chief Engineer of the Pittsburgh Bridge Company.
- 1871 HENRY G. MORSE,
Formerly President of the Morse Bridge Works and now President of the Edge Moor Bridge Works.
- 1872 JOHN F. ALDEN,
Proprietor of the Rochester Bridge and Iron Works.
- 1872 WILLIAM H. BURR,
Formerly General Manager of the Phoenix Bridge Company.
- 1872 DAVID REEVES,
President of the Phoenix Bridge Company.
- 1872 A. J. SWIFT,
Chief Engineer of the Delaware and Hudson Canal Company.
- 1875 EDWARD W. ECKERT,
Formerly President of the Massillon Bridge Co.
- 1875 FRANK POND,
Engineer Rochester Bridge and Iron Works.
- 1875 J. A. L. WADDELL,
Consulting Engineer.
- 1876 EDWARD C. CARTER,
Formerly of the Detroit Bridge and Iron Works.
- 1876 EDWARD J. LANDON,
Chief Engineer of the Wrought Iron Bridge Company.
- 1876 CHARLES SOOYSMITH,
Of SooySmith & Co.
- 1877 DANIEL W. CHURCH,
Formerly with the Wrought Iron Bridge Company.
- 1878 EDWARD C. SHANKLAND,
Chief Engineer of World's Fair Buildings, Chicago.
- 1879 JAMES M. JOHNSON,
President and Chief Engineer of the Louisville Bridge Company.
- 1878 CHARLES F. STOWELL,
Formerly Bridge Engineer of the New York State Railroad Commission; now of the American Engineering and Inspection Association.
- 1879 ALFRED A. STUART,
Engineer of Maintenance and Construction, Brooklyn Elevated Railroad.

CLASS.

- 1880 GUSTAVE KAUFMAN,
Of Ferris, Kaufman & Company.
- 1880 FRANK C. OSBORN,
Formerly Chief Engineer of the King Bridge Company.
- 1880 JAMES W. PEARL,
Formerly Chief Engineer of the Massillon Bridge Company.
- 1881 WILLIAM H. BREITHAUP,
Consulting Civil Engineer.
- 1881 G. W. G. FERRIS, JR.,
Of G. W. G. Ferris, Jr., & Company.
- 1881 GEORGE A. JUST,
Of Lewison & Just.
- 1881 WILLIAM S. MCCORD,
Of the Elmira Bridge Company.
- 1882 O. JULIUS MARSTRAND,
Principal Assistant Engineer of the Brooklyn Elevated Railroad.
- 1883 ALBERT W. BUEL,
Superintendent of the Milwaukee Bridge Company.
- 1884 WILLIAM A. AYCRIGG,
Formerly with Edge Moor Bridge Works.
- 1884 FRANCIS H. BAINBRIDGE,
Assistant Engineer Edge Moor Bridge Works.
- 1884 FRANK CHRYSLER,
Of the Van Zile and Chrysler Bridge Works.
- 1884 H. L. VAN ZILE,
Of the Van Zile and Chrysler Bridge Works.
- 1885 ANDREW C. CUNNINGHAM,
Of the American Engineering and Inspection Association.
- 1885 HENRY W. HODGE,
Chief Engineer of the Union Iron Works.
- 1885 H. A. LACHICOTTE,
Eastern Manager of the Wrought Iron Bridge Company.
- 1885 D. W. MCNAUGHER,
With Ferris, Kaufman & Co.
- 1886 J. V. W. REYNDERS,
Engineer Bridge and Construction Department of the Pennsylvania
Steel Company.
- 1887 A. L. COLBY,
With the Detroit Bridge and Iron Company.
- 1887 THOMAS EARLE,
Assistant Engineer B. and C. Department Pennsylvania Steel Co.
- 1887 GEORGE E. GIFFORD,
Engineer of the King Bridge Company.
- 1887 JOHN H. GRAY,
Of Estrada, Kenyon and Gray.
- 1887 W. F. GRONAU,
Of G. W. G. Ferris & Co.
- 1887 ARCHER C. SITTES,
Engineer of the Phœnix Bridge Company and Phœnix Iron Com-
pany, Chicago.
- 1889 GEORGE S. GROESBECK,
Assistant Engineer Elmira Bridge Company.
- 1889 ALBERT A. WIGAND,
Engineer of the Jackson Architectural Iron Works.

The Number of Graduates of the Rensselaer Polytechnic Institute who have Become Members of the American Society of Civil Engineers.

As another indication of the success attained by graduates of the Institute there is given below a table showing the aggregate of those who had, prior to December 1892, become members of the American Society of Civil Engineers ;—the leading Engineering Society of America.

	NUMBER.
M. AM. SOC. C. E., living.....	134
M. AM. SOC. C. E., dead.....	12
ASSOC. M. AM. SOC. C. E., living.....	10
ASSOC. AM. SOC. C. E., living.....	5
ASSOC. AM. SOC. C. E., dead.....	1
JUN. AM. SOC. C. E., living	27
JUN. AM. SOC. C. E., dead	1
Total number.....	190

It will be observed that eleven per cent. of the society have been Alumni of the Rensselaer Polytechnic Institute.

This school has nearly four times as many graduates who are M. Am. Soc. C. E. as any other school in the country, and it has about as many members as any other five schools combined. There is attached to this pamphlet a diagram, the vertical ordinates of which indicate the number of members of each class since 1850, who have been connected with the society. The full line bounds the highest grade of membership designated by M. Am. Soc. C. E.—to attain which at the present time, a man must have been graduated eight years and must have designed and had charge of engineering work of some magnitude. The other grades are added above so that the highest line, partly full and partly broken, shows the total number of graduates who have joined the society from the year 1850 to December, 1892. Thus eleven members of the class of 1879 have become M. Am. Soc. C. E., and one has joined in one of the other grades. Four alumni, who graduated before 1850, also became members, one from each of the classes of 1835, 1838, 1839 and 1847.

DIAGRAM

showing the number of GRADUATES of each class of the
RENSSELAER POLYTECHNIC INSTITUTE
 who have become

PRESIDENTS, VICE PRESIDENTS, GENERAL MANAGERS, SUPERINTENDENTS and
 CHIEF ENGINEERS of RAILROAD, BRIDGE, CANAL and COAL COMPANIES, STEEL and IRON WORKS, WATER WORKS, etc.

Also the number of those who have become

PROFESSORS in the HIGHER INSTITUTIONS of LEARNING in this and other countries.

Each square represents a graduate.
 The Chief Engineers are shown by horizontal shading. Total number = 69.
 The Vice Presidents, etc. by vertical shading. " " = 121.
 The Presidents by shading inclined upward to the right. " " = 37.
 The Professors by shading inclined upward to the left. " " = 56.
 The heavy black lines show the total number of graduates in each class.

1892.





